

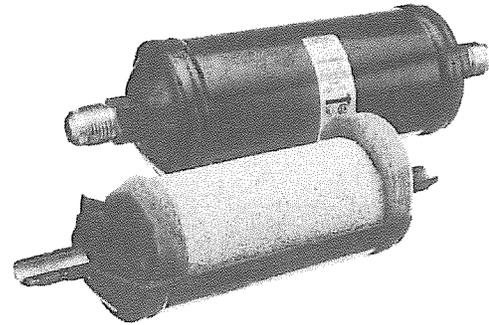
# ADK Core Style Liquid Line Filter-Drier

## APPLICATION

☆ value solid core liquid line filter-drier ideal for use with CFC, HCFC and HFC refrigerants

## FEATURES

- ☆ Solid copper fittings
- ☆ Shock resistant steel shell construction
- ☆ High moisture and acid removal capacity
- ☆ Corrosion resistant epoxy powder paint finish



## SPECIFICATIONS

- ☆ Desiccant Blend: Meets Copeland Recommendations for HFC/POE
- ☆ Filtration: 40 microns
- ☆ Maximum working pressure: 680 psig
- ☆ UL/CUL file number: SA 3124

## NOMENCLATURE

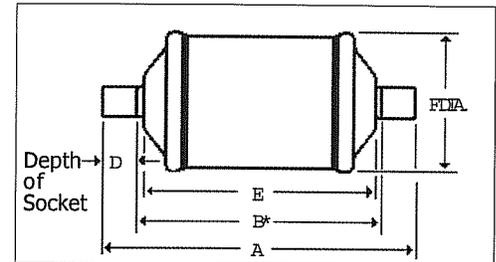
Example: ADK 083S

ADK	08	3	S
Series	Unit Size (in cu. in.)	Connection Size (in 1/8")	S = ODF connection (Omit for SAE)

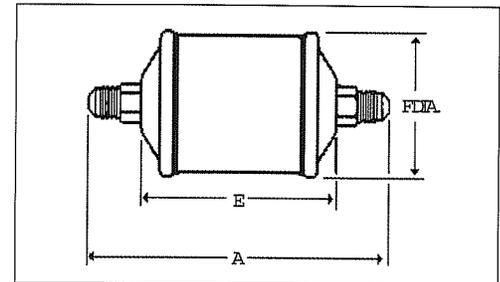
## ORDERING INFORMATION FOR ADK

PCN*	PART NUMBER	DIMENSIONS						SHIP WT. LBS
		CONNECTION SIZE	A	B	D	E	F <sup>⊙</sup>	
059874	ADK-032	1/4 SAE	4 3/8	—	—	29/16	13/4	1/2
052451	ADK-032S	1/4 ODF	3 7/8	3 1/8	3/8			
023157	ADK-033	3/8 SAE	4 11/16	—	—	3	25/8	1
053172	ADK-033S	3/8 ODF	4 1/16	3 1/4	7/16			
060125	ADK-052	1/4 SAE	4 7/8	—	—	3 13/16	25/8	1 1/4
060126	ADK-052S	1/4 ODF	4 7/16	3 11/16	3/8			
060127	ADK-053	3/8 SAE	5 1/8	—	—	43/4	25/8	13/4
060128	ADK-053S	3/8 ODF	4 1/2	3 11/16	7/16			
060129	ADK-082	1/4 SAE	5 5/8	—	—	7 1/2	3 1/8	3 1/2
060130	ADK-082S	1/4 ODF	5	4 5/16	3/8			
060131	ADK-083	3/8 SAE	5 15/16	—	—	7 1/2	3 1/8	3 1/2
060132	ADK-083S	3/8 ODF	5 6/16	4 1/16	5/8			
060133	ADK-084	1/2 SAE	6 3/16	—	—	7 1/2	3 1/8	3 1/2
060134	ADK-084S	1/2 ODF	5 3/8	4 1/16	6/8			
059838	ADK-162S	1/4 ODF	6-15/16	5-1/4	1/4	7 1/2	3 1/8	3 1/2
059820	ADK-162	1/4 SAE	6 9/16	—	—			
059839	ADK-163	3/8 SAE	6 3/4	—	—	7 1/2	3 1/8	3 1/2
060795	ADK-163S	3/8 ODF	6 1/4	5	5/8			
059840	ADK-164	1/2 SAE	7 1/8	—	—	7 1/2	3 1/8	3 1/2
059841	ADK-164S	1/2 ODF	6 3/8	5	6/8			
059842	ADK-165	5/8 SAE	7 9/16	—	—	7 1/2	3 1/8	3 1/2
059843	ADK-165S	5/8 ODF	6 9/16	5 1/8	5/8			
060172	ADK-303	3/8 SAE	9 5/8	—	—	7 1/2	3 1/8	3 1/2
058507	ADK-303S	5/8 ODF	8 15/16	8 1/8	7/16			
060173	ADK-304	1/2 SAE	9 13/16	—	—	7 1/2	3 1/8	3 1/2
060176	ADK-304S	1/2 ODF	9 1/16	8 1/16	1/2			
060174	ADK-305	5/8 SAE	10 5/16	—	—	7 1/2	3 1/8	3 1/2
060177	ADK-305S	5/8 ODF	9 1/4	8	5/8			
060178	ADK-307S	7/8 ODF	9 7/8	8 3/8	3/4	7 1/2	3 1/8	3 1/2
060179	ADK-309S	1 1/8 ODF	10 3/16	8 3/8	15/16			
060182	ADK-413	3/8 SAE	9 3/4	—	—	7 5/8	3 11/16	4 3/4
060183	ADK-414	1/2 SAE	10	—	—			
060185	ADK-414S	1/2 ODF	9 3/16	8 3/16	1/2	7 5/8	3 11/16	4 3/4
060184	ADK-415	5/8 SAE	10 7/16	—	—			
060186	ADK-415S	5/8 ODF	9 7/16	8 3/16	5/8	7 5/8	3 11/16	4 3/4
060187	ADK-417S	7/8 ODF	10	8 1/2	3/4			
060188	ADK-419S	1 1/8 ODF	10 3/8	8 1/2	15/16	7 5/8	3 11/16	4 3/4
060190	ADK-757S	7/8 ODF	15 1/2	14 15/16	3/4			
060191	ADK-759S	1 1/8 ODF	15 7/8	14 1/6	15/16	13 1/8	3 11/16	7 3/4

## DIMENSIONAL DATA



\* Indicates lay-in length



Standard Product Offering

⊙ Does not include weld bead

\*Product Code Number

# ADK CAPACITY TABLES

DESCRIPTION	CONNECTIONS	FLOW CAPACITY TONS @ 1 psi $\Delta P^{(1)}$ (For kW, multiply tons by 3.5)							WATER CAPACITY <sup>(2)</sup> DROPS OF WATER <sup>(3)</sup>																			
		R-12		R-134a		R-22		R-410A	R-407C	R-404A/507		R-502		R-12		R-134a		R-22		R-407C		R-410A		R-404A/507		R-502		
		75°F	125°F	75°F	125°F	75°F	125°F	75°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
ADK 032	1/4 SAE	1.6	1.9	2.1	2.1	2.0	1.4	1.3																				
ADK 032S	1/4 ODF	1.9	2.3	2.5	2.5	2.4	1.7	1.6																				
ADK 033	3/8 SAE	2.2	2.7	2.9	2.9	2.9	2.0	1.9	79	70	74	68	69	63	57	46	47	36	76	72	71	63						
ADK 033S	3/8 ODF	2.5	3.0	3.3	3.3	3.2	2.2	2.1																				
ADK 052	1/4 SAE	1.6	2.0	2.2	2.2	2.1	1.4	1.4																				
ADK 052S	1/4 ODF	2.4	2.9	3.1	3.1	3.1	2.1	2.0	205	185	195	180	180	130	150	120	125	95	200	190	185	165						
ADK 053	3/8 SAE	3.0	3.7	4.0	4.0	3.9	2.7	2.6																				
ADK 053S	3/8 ODF	3.7	4.5	4.9	4.9	4.8	3.3	3.2																				
ADK 082	1/4 SAE	1.6	2.0	2.2	2.2	2.1	1.4	1.4																				
ADK 082S	1/4 ODF	2.5	3.1	3.4	3.4	3.3	2.2	2.2																				
ADK 083	3/8 SAE	3.5	4.3	4.7	4.7	4.6	3.1	3.0	285	250	265	245	250	225	205	165	170	130	275	260	255	230						
ADK 083S	3/8 ODF	3.4	4.2	4.6	4.6	4.5	3.0	3.0																				
ADK 084	1/2 SAE	5.5	6.7	7.3	7.3	7.1	4.9	4.7																				
ADK 084S	1/2 ODF	5.7	7.0	7.6	7.6	7.4	5.1	4.9																				
ADK 162	1/4 SAE	1.6	2.0	2.2	2.2	2.1	1.4	1.4																				
ADK 163	1/4 SAE	3.6	4.4	4.8	4.8	4.7	3.2	3.1																				
ADK 163S	1/4 ODF	4.0	4.9	5.3	5.3	5.2	3.6	3.5																				
ADK 164	1/2 SAE	6.8	8.3	9.0	9.0	8.8	6.0	5.8	420	365	390	360	265	330	300	240	250	190	400	380	375	335						
ADK 164S	1/2 ODF	7.1	8.6	9.3	9.3	9.1	6.2	6.1																				
ADK 165	5/8 SAE	9.7	11.8	12.8	12.8	12.5	8.6	8.3																				
ADK 165S	5/8 ODF	10.7	13.1	14.2	14.2	13.9	9.5	9.2																				
ADK 167S	7/8 ODF	13.1	16.0	17.3	17.3	17.0	11.6	11.3																				
ADK 303	3/8 SAE	3.9	4.7	5.1	5.1	5.0	3.4	3.3																				
ADK 304	1/2 SAE	7.1	8.6	9.3	9.3	9.1	6.2	6.1																				
ADK 304S	1/2 ODF	7.2	8.8	9.5	9.5	9.4	6.4	6.2																				
ADK 305	5/8 SAE	11.3	13.8	15.0	15.0	14.7	10.0	9.7	935	820	865	800	810	740	675	540	555	420	895	845	835	745						
ADK 305S	5/8 ODF	11.9	14.5	15.7	15.7	15.4	10.5	10.2																				
ADK 306S	3/4 ODF	13.0	15.8	17.1	17.1	16.8	11.5	11.1																				
ADK 307S	7/8 ODF	14.3	17.4	18.9	18.9	18.5	12.6	12.3																				
ADK 309S	1 1/8 ODF	20.4	24.9	27.0	27.0	26.5	18.0	17.5																				
ADK 413	3/8 SAE	3.9	4.7	5.1	5.1	5.0	3.4	3.3																				
ADK 414	1/2 SAE	8.0	9.8	10.6	10.6	10.4	7.1	6.9																				
ADK 414S	1/2 ODF	8.8	10.7	11.6	11.6	11.4	7.8	7.5																				
ADK 415	5/8 SAE	12.8	15.6	16.9	16.9	16.6	11.3	11.0	1310	1120	1210	1100	1140	1010	945	740	780	580	1260	1155	1170	1020						
ADK 415S	5/8 ODF	13.5	16.5	17.9	17.9	17.5	12.0	11.6																				
ADK 417S	7/8 ODF	16.6	20.3	22.0	22.0	21.6	14.7	14.3																				
ADK 419S	1 1/8 ODF	20.7	25.2	27.3	27.3	26.8	18.3	17.7																				
ADK 757S	7/8 ODF	28.0	34.2	37.1	37.1	36.3	24.8	24.1	2265	1985	2100	1940	1965	1800	1635	1310	1350	1030	2170	2050	2025	1800						
ADK 759S	1 1/8 ODF	30.6	37.3	40.4	40.4	39.6	27.0	26.3																				

⊙ All ratings in accordance with ARI Standard 710-86. 86F liquid refrigerant temperature <sup>2</sup> Water Capacities are based on: <sup>3</sup> 20 drops of water = 1 gram = 1 cc

5°F saturated vapor temperature  
 3.1 lbs./min./ton for R-134a  
 2.9 lbs./min./ton for R-22 and R-407C  
 4.0 lbs./min./ton for R-404A/507 and R-12  
 4.4 lbs./min./ton for R-502  
 2.7 lbs./min./ton for R-410A

Equilibrium Point Dryness (EPD) of:  
 50 parts per million for R-134a, R404A/507,  
 R-410A and R-407C <sup>4</sup> For 2 PSI  $\Delta P$ , Multiply values by 1.4  
 60 parts per million for R-22  
 15 parts per million for R-12  
 30 parts per million for R-502

## LIQUID REFRIGERANT HOLDING CAPACITY - OUNCES

Unit Size	R-12		R-134a		R-22		R-407C		R-410A		R-404A/507		R-502	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
<b>03</b>	2.4	2.2	2.2	2.0	2.2	2.0	2.1	1.9	2.0	1.7	1.9	1.7	2.2	2.0
<b>05</b>	5.9	6.0	5.5	5.5	5.4	5.4	5.2	5.0	4.8	4.5	4.7	4.5	5.5	5.4
<b>08</b>	8.0	7.4	7.4	6.7	7.3	6.6	7.0	6.2	6.5	5.5	6.4	5.5	7.5	6.6
<b>16</b>	14.5	12.5	13.4	11.4	13.2	11.2	12.6	10.4	11.7	9.4	11.6	9.3	13.5	11.2
<b>30</b>	21.8	19.9	20.1	18.1	19.8	17.8	18.9	16.6	17.4	14.9	17.4	14.7	20.2	17.7
<b>41</b>	29.3	26.8	26.9	24.4	26.6	23.9	25.4	22.3	23.7	20.0	23.3	19.7	27.2	23.8
<b>75</b>	52.8	48.3	48.6	43.9	48.0	43.1	45.8	40.2	42.8	36.0	42.1	35.6	49.1	43.0